AMENDMENT TO THE CLAIMS:

The following claim set replaces all prior versions, and listings, of claims in the application:

1. - 14. (cancelled)

- (previously presented) Process for forming an etched layer in a chip by immersion lithography, the process comprising the sequential steps of:
 - (A) forming a photoresist layer on a substrate wherein the photoresist layer is prepared from a photoresist composition comprising:
 - (a) about 50 to about 99.5 wt% of a binder;
 - (b) about 0 to about 10 wt.% of a photoactive component; and
 - about 0.5 to about 50 wt.% of a fluor containing compound relative to the total of (a)+(b)+(c);
 - imagewise exposing a photoresist layer to form imaged and non-imaged areas.
 - developing the exposed photoresist layer having imaged and non- imaged areas to form the relief image on the substrate,
 - (D) etching the substrate to a predetermined depth, and
 - (E) removing the relief image from the substrate.
- 16. (previously presented) A process for the production of a chip by immersion lithography, comprising the step of forming a photoresist layer on a substrate, wherein the photoresist layer is prepared from a photoresist composition comprising:
 - (a) about 50 to about 99.5 wt% of a binder;
 - (b) about 0 to about 10 wt.% of a photoactive component; and
 - about 0.5 to about 50 wt.% of a fluor containing compound relative to the total of (a)+(b)+(c).

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- (previously presented) Process according to claim 15 or 16, wherein the
 photoresist composition comprises (c) a fluor containing compound having a
 (blocked) acid group, which when unblocked has a pKa < 12.
- (previously presented) Process according to claim 15 or 16, wherein the photoresist composition comprises (c) a fluor containing compound having two or more acid groups.
- (previously presented) Process according to claim 15 or 16, wherein the photoresist composition comprises (c) a fluor containing compound having an acid group with a pKa of 9.6 or less
- (previously presented) Process according to claim 15 or 16, wherein the
 photoresist composition comprises (c) a fluor containing compound having acid
 groups which are partly or fully blocked with acid-labile groups
- 21. (previously presented) Process according to claim 20, wherein the photoresist composition comprises (c) a fluor containing compound having at least partly blocked acid-labile groups, chosen from the group consisting of A) a carbonate formed from a tertiary aliphatic alcohol, B) a tertiary aliphatic or other group which forms a stabilized carbocation, C) an acetal group and D) an orthoester group.
- (previously presented) Process according to claim 15 or 16, wherein the photoresist composition comprises (c) a fluor containing compound having aromatic groups.
- (previously presented) Process according to claim 15 or 16, wherein the photoresist composition comprises (a) 50 to 99.5 wt% of a polymeric binder

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- (previously presented) Process according to claim 15 or 16, wherein the photoresist composition comprises (b) 0 to about 10 wt% photoactive compound
- (previously presented) Process according to claim 15 or 16, wherein the
 photoresist composition comprises a binder, which is a polymer comprising acid
 groups with a pKa < 12
- (previously presented) Process according to claim 25, wherein the acid groups are partially blocked.
- (previously presented) Process according to claim 17 wherein the acid group is an hydroxyl group bound to an aromatic group, or a C(CF₃)₂OH bound to an aromatic ring.
- (previously presented) Process according to claim 17, wherein the acid group is at least partly blocked with a carbonate, acetal group, ortho ester, or tertiary alkyl group.
- (previously presented) Process according to claim 17, wherein the photoresist composition comprises (a) a binder comprising fluorine groups
- (previously presented) Process according to claim 15 or 16, wherein the photoresist composition comprises (a) a polymer with ring structures
- (previously presented) Process according to claim 15 or 16, wherein the process is performed at 193 nm.
- (previously presented) Process according to claim 15 or 16, wherein the photoresist composition comprises (a) an acrylic or methacrylic binder.

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- (new) Process according to claim 15 or 16, wherein the photoresist composition comprises (c) about 1 wt.% to 50 wt.% of the fluor containing compound relative to the total of (a)+(b)+(c).
- (new) Process according to claim 33, wherein the photoresist composition comprises (c) about 1 wt.% to about 20 wt.% of the fluor containing compound relative to the total of (a)+(b)+(c).
- (new) Process according to claim 15 or 16, wherein the photoresist composition comprises (c) about 5 wt.% to 50 wt.% of the fluor containing compound relative to the total of (a)+(b)+(c).
- (new) Process according to claim 35, wherein the photoresist composition comprises (c) about 5 wt.% to about 20 wt.% of the fluor containing compound relative to the total of (a)+(b)+(c).